

CLAIMS

1. A method for call setup in a wireless communication system comprising:
 2 sending a channel assignment message from a first station to a second
 station to direct the use of previously negotiated service parameters.
2. The method of claim 1, wherein the channel assignment message
 2 comprises a flag.
3. The method of claim 2, wherein the channel assignment message further
 2 comprises an active set identifier associated with an active set and the active
 set's parameters.
4. The method of claim 3, wherein the channel assignment message is sent
 2 in response to an origination message from the mobile station.
5. The method of claim 4, wherein the origination message includes short
 2 data burst information.
6. The method of claim 2, wherein the channel assignment message is sent
 2 in response to a paging sequence.
7. The method of claim 2, wherein the channel assignment message is sent
 2 to initiate a call without paging in response to a paging request message from a
 mobile switching center (MSC).
8. A method for call setup in a wireless communication system comprising:
 2 sending a channel assignment message from a first station to a second
 station, the message comprising an active set identifier associated with an
 4 active set and the active set's parameters.
9. The method of claim 8, wherein the channel assignment message is sent
 2 subsequent to a channel assignment message comprising an active set and
 parameters with an active set identifier for association therewith.

10. A method for initiating mobile station terminated call setup without
2 paging, the mobile station being in the idle state, comprising:
the mobile station entering the system access state to deliver to a base
4 station a pilot strength measurement message.
11. The method of claim 10, further comprising the base station sending the
2 mobile station a channel assignment message with an active set based on the
information in the pilot strength measurement message.
12. The method of claim 11, wherein the active set information is transmitted
2 using an active set identifier.
13. The method of claim 11, further comprising the mobile station sending an
2 authentication message to the base station on the traffic channel set up in
response to the channel assignment message.
14. The method of claim 1 wherein the channel assignment message
2 includes previously used active set information.
15. The method of claim 3, further comprising the mobile station responding
2 to the channel assignment message with a pilot strength measurement
message conditioned on the mobile station's reception of one or more additional
4 pilot signals at a strength exceeding a threshold.
16. The method of claim 15, further comprising the base station sending an
2 updated channel assignment message in response to the pilot strength
measurement message.
17. The method of claim 14, further comprising the mobile station sending an
2 authentication message to the base station on the traffic channel set up in
response to the channel assignment message.

18. A method for call setup in a wireless communication system comprising a
2 mobile station sending a base station a reconnect message activating a
dormant packet data call.

19. The method of claim 18, wherein the reconnect message is one radio
2 frame or less in length.

20. The method of claim 18, wherein the reconnect message is sent in
2 response to a message from the base station.

21. A method for call setup in a wireless communication system comprising a
2 mobile station transmitting a preamble to a base station directly following a
channel assignment message received from the base station.

22. The method of claim 21, further comprising the mobile station terminating
2 the preamble transmission if a prescribed amount of data is not received on the
forward link within a prescribed period of time.

23. A wireless communication system comprising:
2 a first station; and
a second station for sending to the first station a channel assignment
4 message to direct the use of previously negotiated service parameters.

24. The apparatus of claim 23, wherein the channel assignment message
2 comprises a flag.

25. The apparatus of claim 23, wherein the channel assignment message
2 comprises an active set identifier associated with an active set and the active
set's parameters.

26. A wireless communication system for initiating mobile station terminated
2 call setup without paging, comprising:

a first station; and

4 a second station for receiving a pilot strength measurement message
from the first station, conditioned on the first station's reception of one or more
6 additional pilot signals at a strength exceeding a threshold, and for sending a
channel assignment message to the first station with active set information
8 based on the pilot strength measurement message.

27. A wireless communication system for initiating first station terminated call
2 setup without paging, comprising:

a second station; and

4 a first station for receiving a channel assignment message with
previously used active set information, and for conditionally sending the second
6 station a pilot strength measurement message when one or more additional
pilot signals are received which exceed a threshold.

28. A wireless communication system operably coupled with a network
2 comprising:

a second station;

4 a first station for sending the second station an origination message
including short data burst information for initiation of call setup and delivery of
6 the short data burst information; and

a first switching center for receiving the short data burst information from
8 the second station and sending it to a network destination.

29. An apparatus used to set up a call in a wireless communication system,
2 comprising:

memory; and

4 a digital signal processing device communicatively coupled to said
memory, the digital signal processing device capable of executing instructions
6 to send channel assignment message from a first station to a second station to
direct the use of previously negotiated service parameters.

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